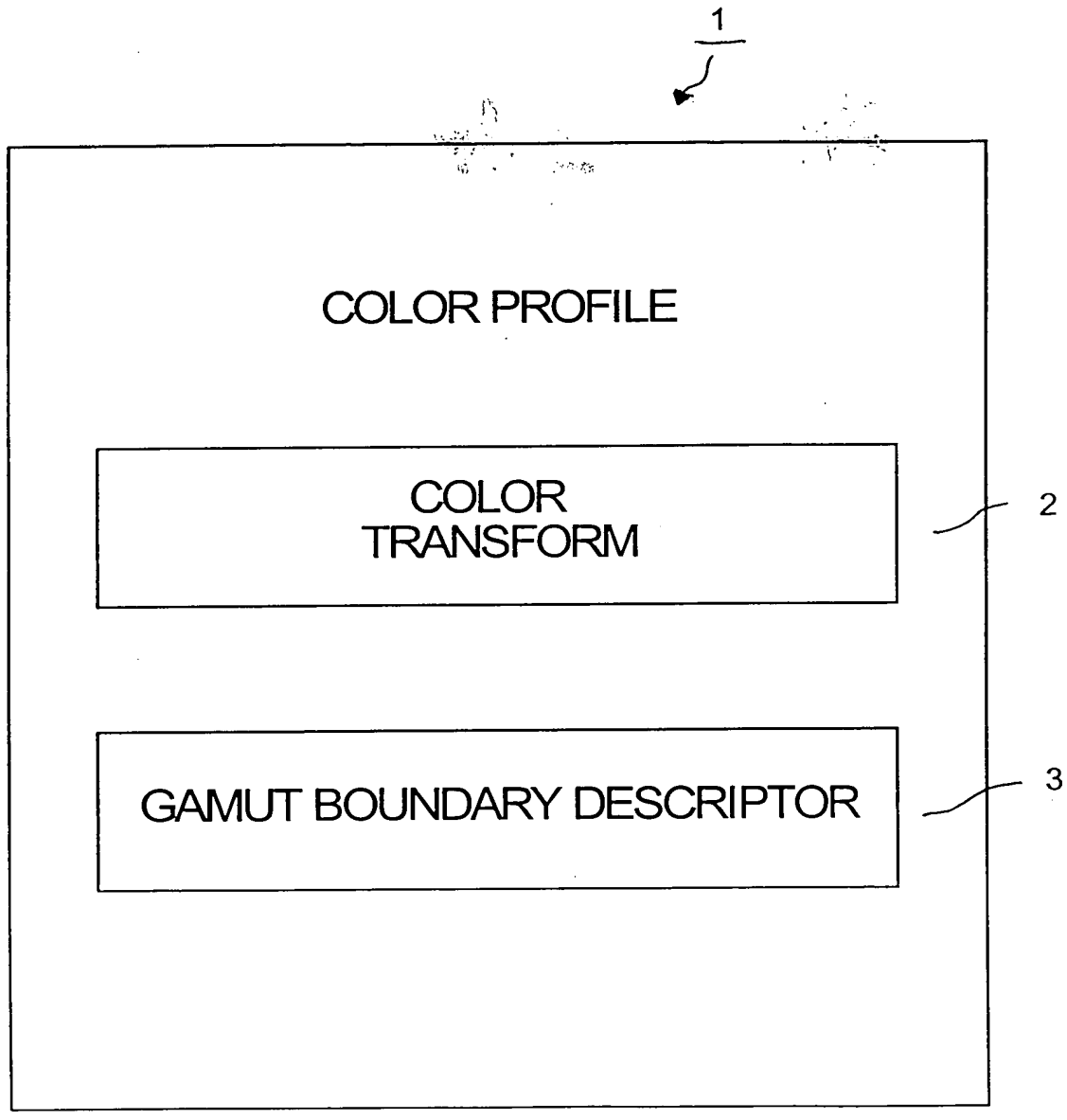

FIG. 1
(PRIOR ART)

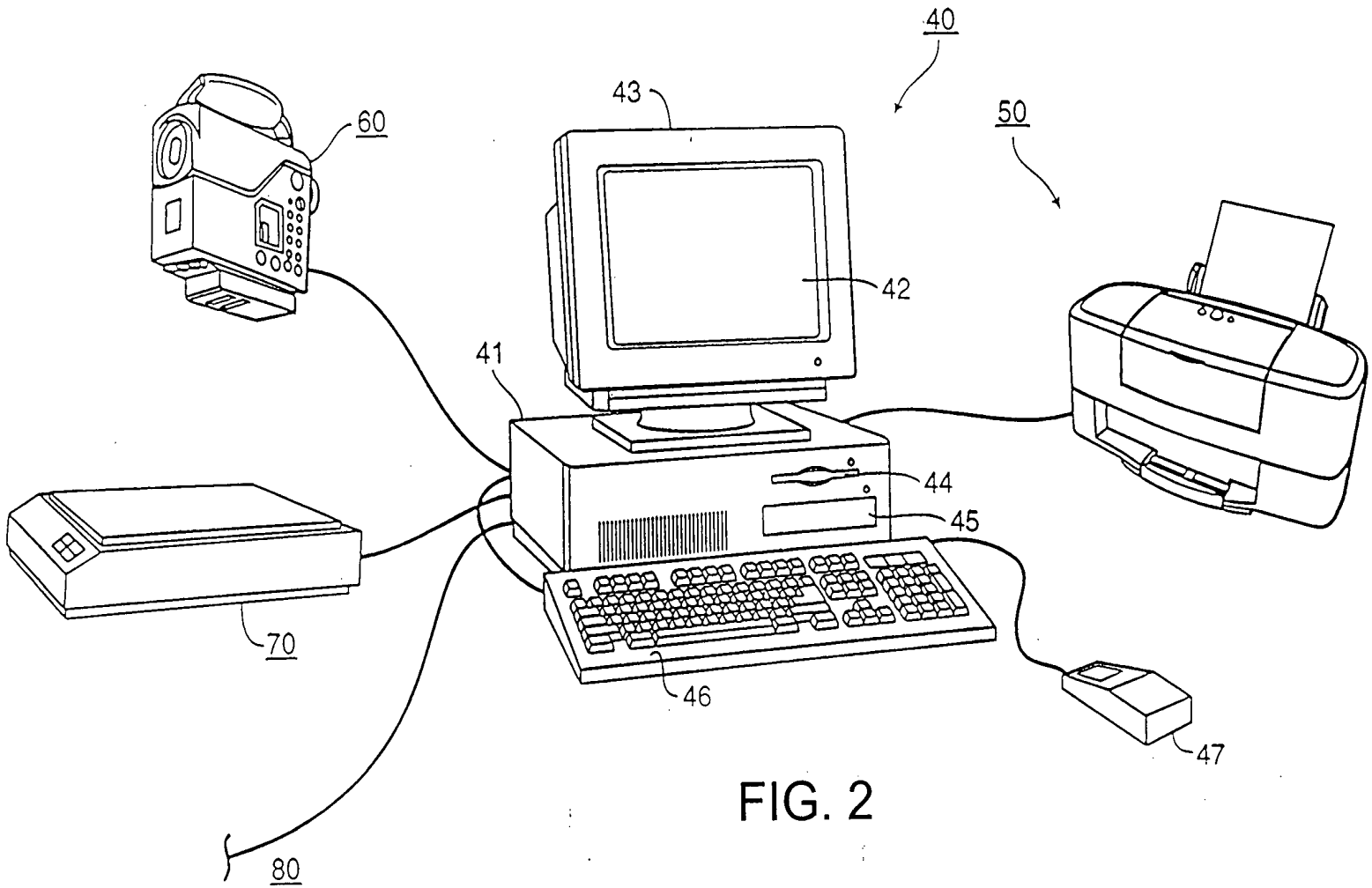

FIG. 2

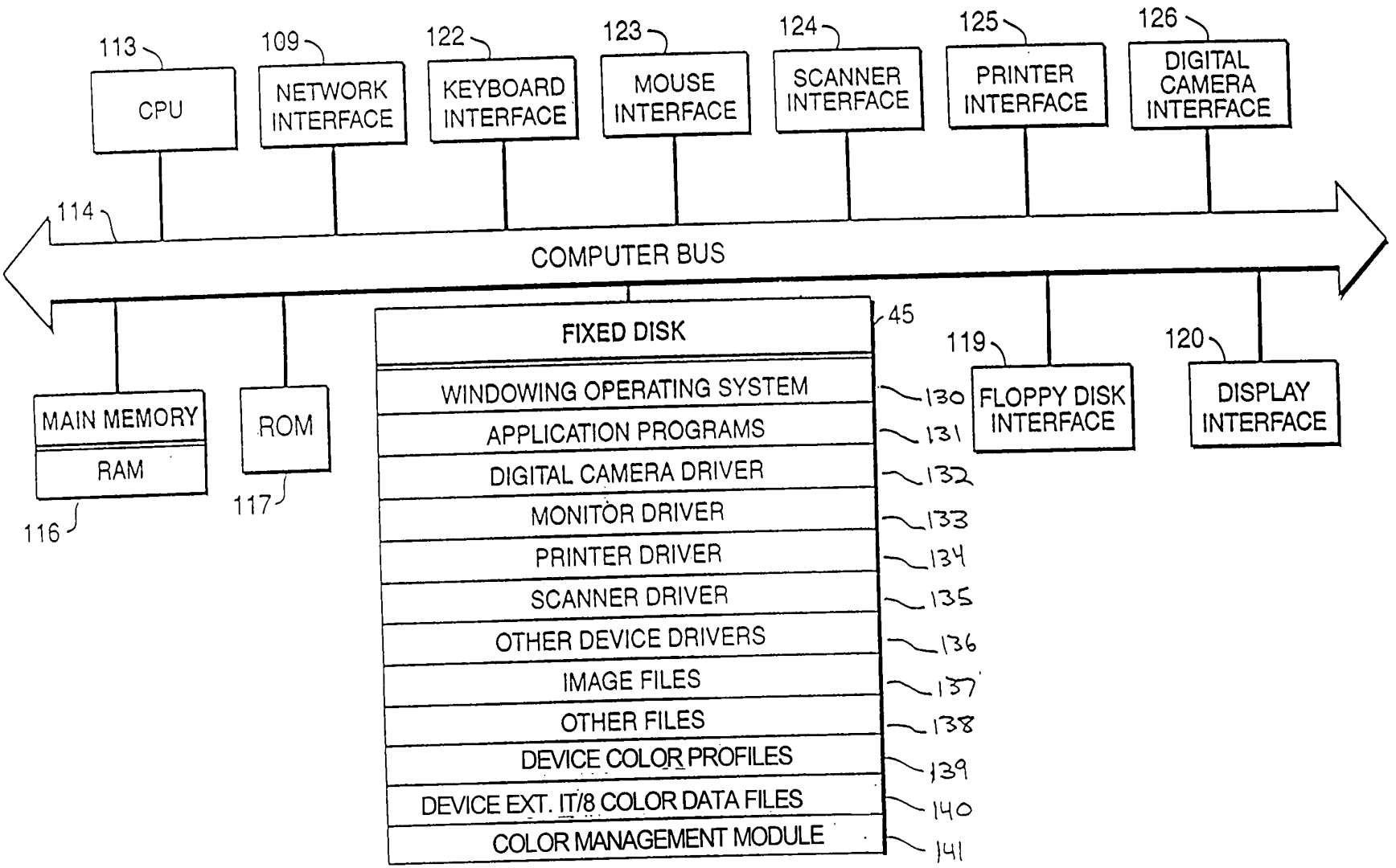
113
CPU
109
NETWORK INTERFACE
122
KEYBOARD INTERFACE
123
MOUSE INTERFACE
124
SCANNER INTERFACE
125
PRINTER INTERFACE
126
DIGITAL CAMERA INTERFACE
114
COMPUTER BUS
MAIN MEMORY
RAM
116
ROM
117
FIXED DISK
45
WINDOWING OPERATING SYSTEM 130
APPLICATION PROGRAMS 131
DIGITAL CAMERA DRIVER 132
MONITOR DRIVER 133
PRINTER DRIVER 134
SCANNER DRIVER 135
OTHER DEVICE DRIVERS 136
IMAGE FILES 137
OTHER FILES 138
DEVICE COLOR PROFILES 139
DEVICE EXT. IT/8 COLOR DATA FILES 140
COLOR MANAGEMENT MODULE 141
119
FLOPPY DISK INTERFACE
120
DISPLAY INTERFACE

FIG. 3

COLOR DATA FILE 400

HEADER PORTION 401

CAMERA MEASUREMENT

ORIGINATOR "Company X"

DESCRIPTOR "MyShot Camera"

CREATED "03/31/00

.

NUMBER_OF_FIELDS 7 (402)

NUMBER OF SETS 27

.

WHITE_POINT_X 95.197, WHITE_POINT_Y 100.158, WHITE_POINT_Z 95.197 (430)

SURROUND AVERAGE (431), AMBIENT_X 95.197, AMBIENT_Y 100.158, AMBIENT_Z 109.051 (432)

BACKGROUND_X 19.039, BACKGROUND_Y 20.032, BACKGROUND_Z 19.039 (433)

LUMINANCE_OF_ADAPTING_FIELD 18.000 (434)

FORMAT PORTION 410

BEGIN_DATA_FORMAT

SAMPLE_ID (411), RGB_R RGB_G RGB_B (412), XYZ_X XYZ_Y XYZ_Z (413)

END_DATA_FORMAT

DATA PORTION 420

BEGIN_DATA

.

.

.

A01 (421) 127 255 127 (422) 24.213 35.692 22.919 (423)

.

END_DATA

FIG. 4

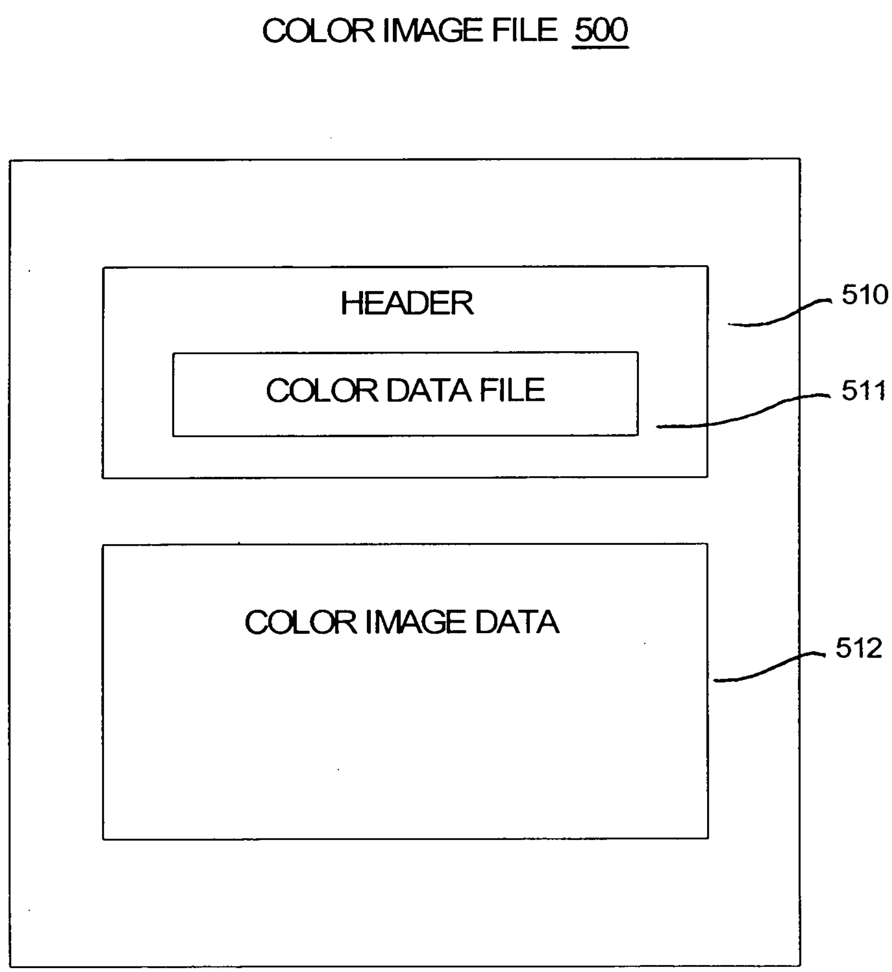
COLOR IMAGE FILE 500
HEADER
COLOR DATA FILE
COLOR IMAGE DATA
510
511
512

FIG. 5

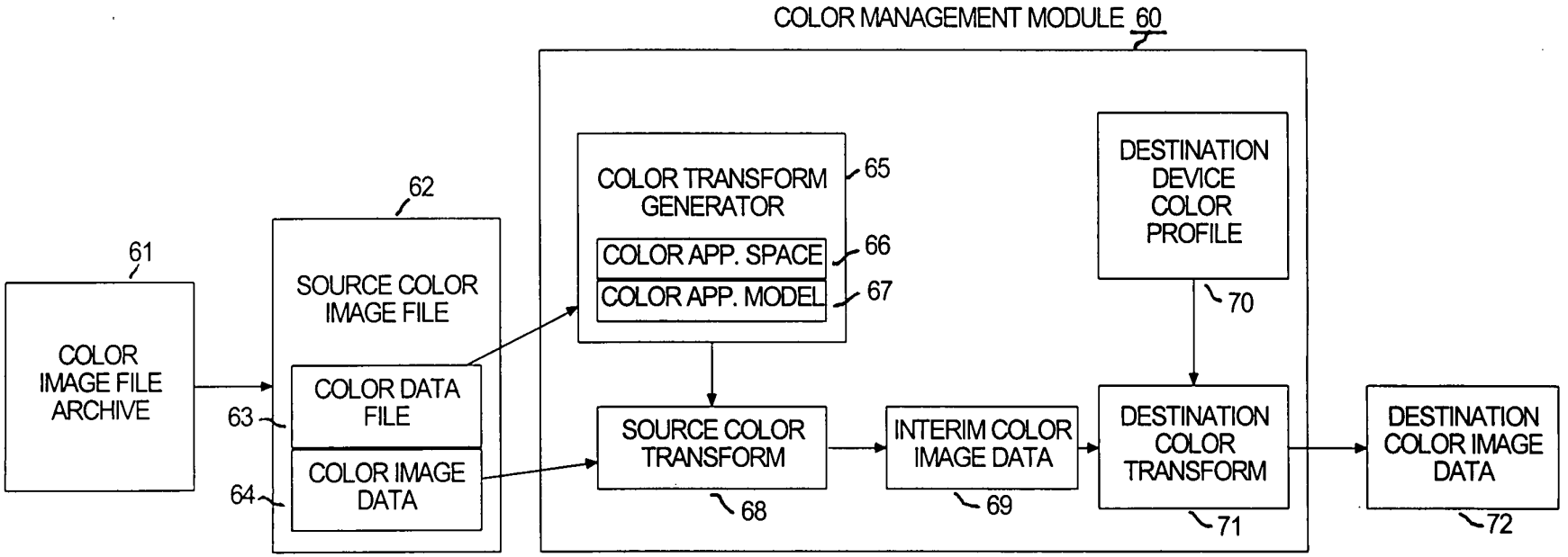

FIG. 6

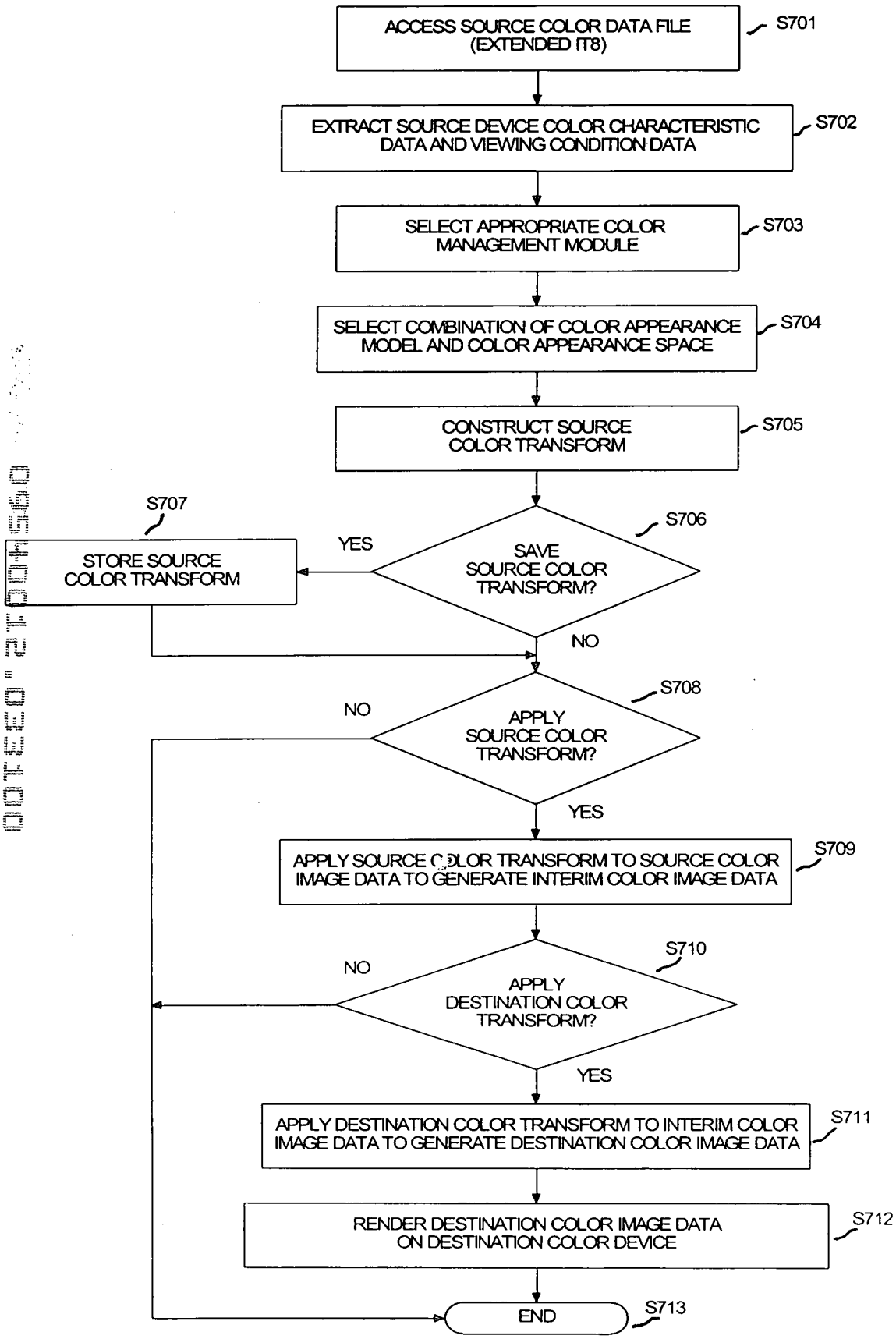
ACCESS SOURCE COLOR DATA FILE (EXTENDED IT8)
S701
EXTRACT SOURCE DEVICE COLOR CHARACTERISTIC DATA AND VIEWING CONDITION DATA
S702
SELECT APPROPRIATE COLOR MANAGEMENT MODULE
S703
SELECT COMBINATION OF COLOR APPEARANCE MODEL AND COLOR APPEARANCE SPACE
S704
CONSTRUCT SOURCE COLOR TRANSFORM
S705
SAVE SOURCE COLOR TRANSFORM?
S706
YES
STORE SOURCE COLOR TRANSFORM
S707
NO
APPLY SOURCE COLOR TRANSFORM?
S708
NO
YES
APPLY SOURCE COLOR TRANSFORM TO SOURCE COLOR IMAGE DATA TO GENERATE INTERIM COLOR IMAGE DATA
S709
APPLY DESTINATION COLOR TRANSFORM?
S710
NO
YES
APPLY DESTINATION COLOR TRANSFORM TO INTERIM COLOR IMAGE DATA TO GENERATE DESTINATION COLOR IMAGE DATA
S711
RENDER DESTINATION COLOR IMAGE DATA ON DESTINATION COLOR DEVICE
S712
END
S713

FIG. 7

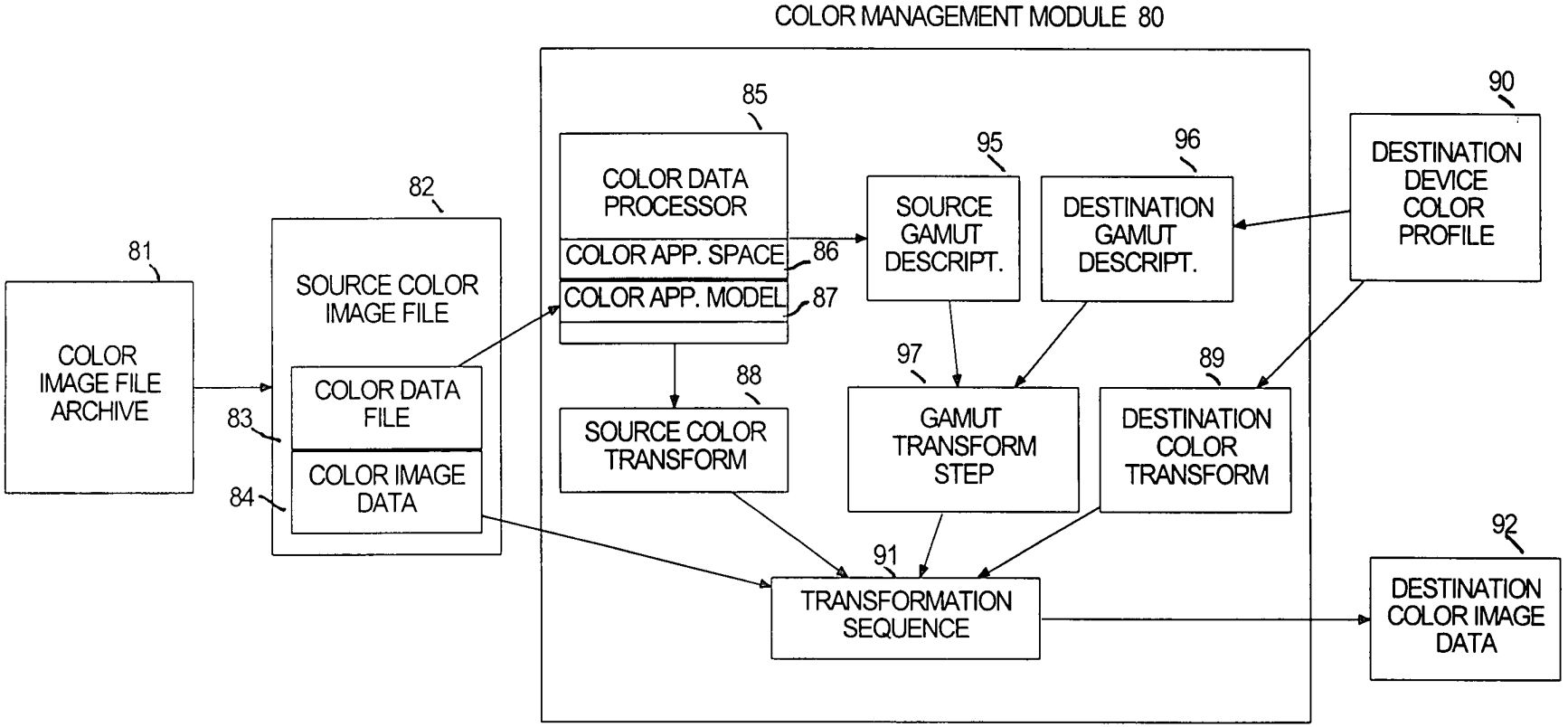

FIG. 8

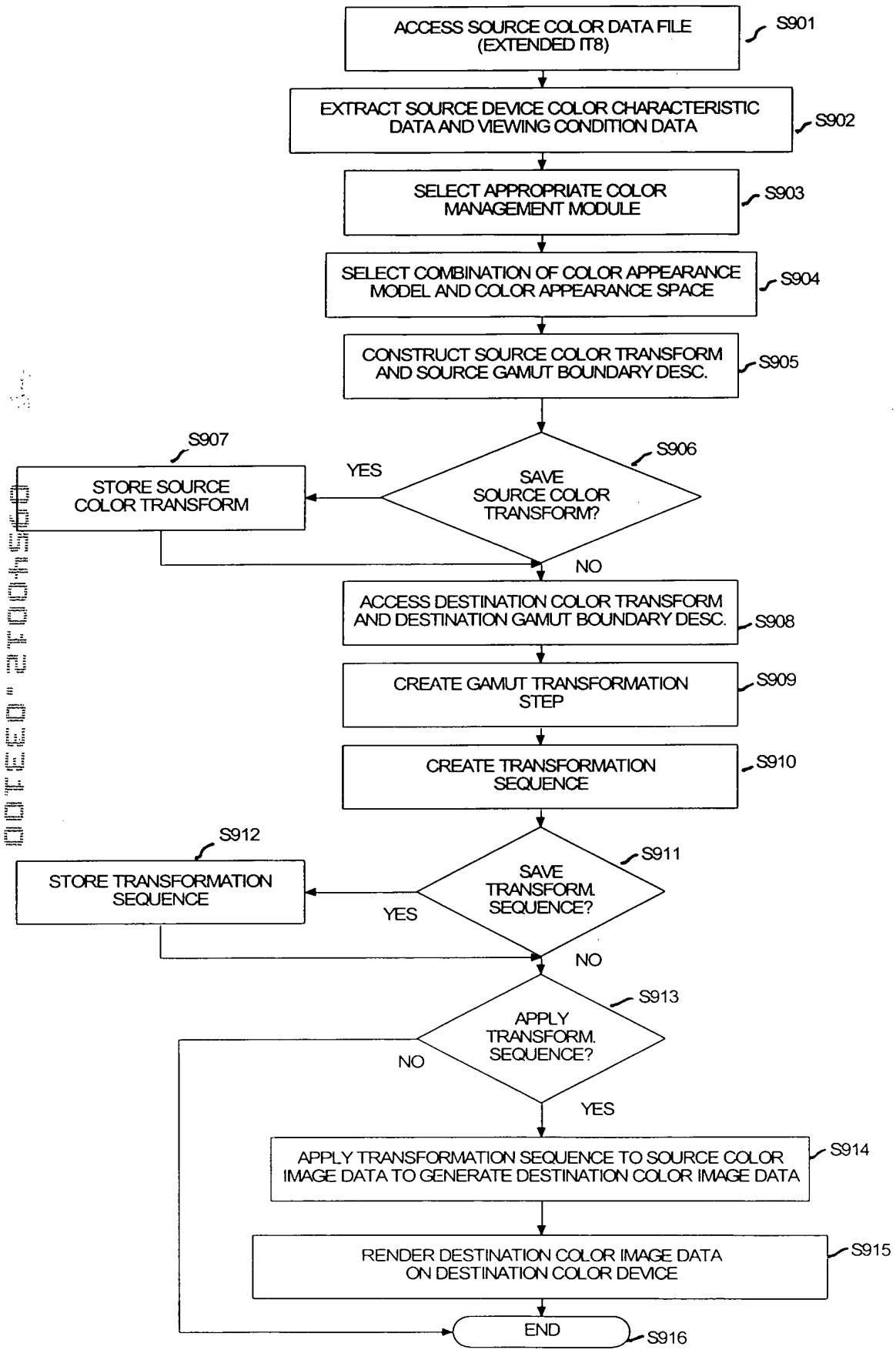
ACCESS SOURCE COLOR DATA FILE (EXTENDED IT8)
S901
EXTRACT SOURCE DEVICE COLOR CHARACTERISTIC DATA AND VIEWING CONDITION DATA
S902
SELECT APPROPRIATE COLOR MANAGEMENT MODULE
S903
SELECT COMBINATION OF COLOR APPEARANCE MODEL AND COLOR APPEARANCE SPACE
S904
CONSTRUCT SOURCE COLOR TRANSFORM AND SOURCE GAMUT BOUNDARY DESC.
S905
SAVE SOURCE COLOR TRANSFORM?
S906
YES
STORE SOURCE COLOR TRANSFORM
S907
NO
ACCESS DESTINATION COLOR TRANSFORM AND DESTINATION GAMUT BOUNDARY DESC.
S908
CREATE GAMUT TRANSFORMATION STEP
S909
CREATE TRANSFORMATION SEQUENCE
S910
SAVE TRANSFORM. SEQUENCE?
S911
YES
STORE TRANSFORMATION SEQUENCE
S912
NO
APPLY TRANSFORM. SEQUENCE?
S913
NO
YES
APPLY TRANSFORMATION SEQUENCE TO SOURCE COLOR IMAGE DATA TO GENERATE DESTINATION COLOR IMAGE DATA
S914
RENDER DESTINATION COLOR IMAGE DATA ON DESTINATION COLOR DEVICE
S915
END
S916

FIG. 9